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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/570,805	03/06/2006	Alessandro Spaggiari	27275U	7229
²⁰⁵²⁹ NATH & ASSO	7590 04/13/200	EXAMINER		
112 South Wes	t Street		WIEHE, NATHANIEL EDWARD	
Alexandria, VA 22314			ART UNIT	PAPER NUMBER
			3745	
SHORTENED STATUTORY PERIOD OF RESPONSE		MAIL DATE	DELIVERY MODE	
2 MONTHS		04/13/2007	PAPER	

Please find below and/or attached an Office communication concerning this application or proceeding.

If NO period for reply is specified above, the maximum statutory period will apply and will expire 6 MONTHS from the mailing date of this communication.

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	Application No.	Applicant(s)				
· Office Action Community	10/570,805	SPAGGIARI, ALESSANDRO				
Office Action Summary	Examiner	Art Unit				
	Nathan Wiehe	3745				
The MAILING DATE of this communication appears on the cover sheet with the correspondence address Period for Reply						
A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 2 MONTH(S) OR THIRTY (30) DAYS, WHICHEVER IS LONGER, FROM THE MAILING DATE OF THIS COMMUNICATION. - Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication. - If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication. - Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).						
Status						
1) Responsive to communication(s) filed on						
,						
3) Since this application is in condition for allowan	☑ Since this application is in condition for allowance except for formal matters, prosecution as to the merits is					
closed in accordance with the practice under E	closed in accordance with the practice under Ex parte Quayle, 1935 C.D. 11, 453 O.G. 213.					
Disposition of Claims						
4)⊠ Claim(s) <u>1-20</u> is/are pending in the application.						
4a) Of the above claim(s) is/are withdrawn from consideration.						
5)⊠ Claim(s) <u>1-20</u> is/are allowed.						
6) Claim(s) is/are rejected.						
	7) Claim(s) <u>1-20</u> is/are objected to.					
8) Claim(s) are subject to restriction and/or election requirement.						
Application Papers		• •				
9) The specification is objected to by the Examiner.						
10)⊠ The drawing(s) filed on <u>06 March 2006</u> is/are: a)⊠ accepted or b)⊡ objected to by the Examiner.						
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).						
Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).						
11) The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.						
Priority under 35 U.S.C. § 119						
 12) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f). a) All b) Some * c) None of: 1. Certified copies of the priority documents have been received. 2. Certified copies of the priority documents have been received in Application No. 3. Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)). * See the attached detailed Office action for a list of the certified copies not received. 						
Attachment(s) 1) Notice of References Cited (PTO-892) 2) Notice of Draftsperson's Patent Drawing Review (PTO-948) 3) Information Disclosure Statement(s) (PTO/SB/08)	4) Interview Summary Paper No(s)/Mail Da 5) Notice of Informal P	nte				
Paper No(s)/Mail Date <u>03062006</u> . 6) Other:						

Office Action Summary

DETAILED ACTION

Priority

Acknowledgment is made of applicant's claim for priority under 35 U.S.C. 119(a)-(d) based upon an application filed in Italy on 08 May 2004. A claim for priority under 35 U.S.C. 119(a)-(d) cannot be based on said application, since the United States application was filed more than twelve months thereafter.

Information Disclosure Statement

The information disclosure statement (IDS) submitted on 6 March 2006 is noted.

The submission is in compliance with the provisions of 37 CFR 1.97 and 1.98.

Accordingly, the information disclosure statement is being considered by the examiner.

Specification

The abstract of the disclosure is objected to because it is in claim format.

Correction is required. See MPEP § 608.01(b).

The disclosure is objected to because of the following informalities:

Page 2, lines 12 and 13 refer to the claims.

Appropriate correction is required.

Claim Objections

The claims are objected to because they include reference characters which are not enclosed within parentheses.

Reference characters corresponding to elements recited in the detailed description of the drawings and used in conjunction with the recitation of the same element or group of elements in the claims should be enclosed within parentheses so

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as to avoid confusion with other numbers or characters which may appear in the claims. See MPEP § 608.01(m).

Claim 1 is objected to because of the following informalities:

On line 9, "center line (1,1)" should read --center line (L1)--, and

On line 11, "center line (Li)" should read --center line (L1)--.

Claim 5 is objected to because of the following informalities:

On line 6, "20" should be deleted, and

On line 7, "(RI)" should read --(R1)--.

Claim 9 is objected to because of the following informalities:

On line 3, "(PIO" should read --(XY)--.

Claim 13 is objected to because of the following informalities:

On line 3, "(X) !-)" should read --(XY)--.

Claim 14 is objected to because of the following informalities:

On line 4, "(BG)" should read --(B6)-- and "foutted" should read --formed--.

Appropriate correction is required.

Allowable Subject Matter

Claims 1-20 are allowed.

The following is an examiner's statement of reasons for allowance: The instant invention is deemed to be a non-obvious improvement in the art of axial fans. The improvement comprises the use of an axial fan having blades with a concave leading edge, convex trailing edge and several aerodynamic profiles having a centre line, i.e. chamber line, with values as claimed.

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Any comments considered necessary by applicant must be submitted no later than the payment of the issue fee and, to avoid processing delays, should preferably accompany the issue fee. Such submissions should be clearly labeled "Comments on Statement of Reasons for Allowance."

Prior Art

The prior art made of record and not relied upon is considered pertinent to applicant's disclosure. The patent issued to Bradbury et al. discloses a state of the art axial fan with blades defined by Bezier curves. The patent issued to Spaggiari discloses an axial fan blade with a parabolic leading edge and circular arc trailing edge. The patent issued to erosion discloses a state of the aft forwardly skewed axial fan blade.

Conclusion

This application is in condition for allowance except for the following formal matters:

The abstract, specification and claims need to be corrected as indicated above.

Prosecution on the merits is closed in accordance with the practice under *Ex* parte Quayle, 1935 C.D. 11, 453 O.G. 213.

A shortened statutory period for reply to this action is set to expire **TWO**MONTHS from the mailing date of this letter.

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Nathan Wiehe whose telephone number is (571)272-

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8648. The examiner can normally be reached on Mon.-Thur. and alternate Fri., 7am-

4:30pm EST.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's

supervisor, Edward Look can be reached on (571)272-4820. The fax phone number for

the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the

Patent Application Information Retrieval (PAIR) system. Status information for

published applications may be obtained from either Private PAIR or Public PAIR.

Status information for unpublished applications is available through Private PAIR only.

For more information about the PAIR system, see http://pair-direct.uspto.gov. Should

you have questions on access to the Private PAIR system, contact the Electronic

Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a

USPTO Customer Service Representative or access to the automated information

system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

Nathan Wiehe

Examiner

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EDWARD K. LOOK SUPERVISORY PATENT EXAMINER TECHNOLOGY CENTER 3700

4/2/07